

PATENT APPLICATION

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of:  
Young Tae SON

Appln. No.: PCT/KR01/00455

Filed: Concurrently herewith

Attorney Dkt. No.: 108256-00016

For: APPARATUS AND METHOD FOR SELECTIVELY REMOVING A BODY FAT  
MASS OF HUMAN BODY

PRELIMINARY AMENDMENT

Commissioner for Patents  
Washington, D.C. 20231

February 21, 2002

Sir:

Prior to calculation of the filing fees and initial examination of the application,  
please amend the above-identified application as follows:

IN THE CLAIMS:

Please amend claims 3, 6, 11 and 13 as follows:

3. (Amended) The apparatus set forth in claim 1, further comprising: a pulse generator in low frequency band; and a transmitter, coupled to said generator, output the pulse from said generator to human body in a aerobic exercise state.

6. (Amended) The apparatus set forth in claim 1, wherein said transmitter comprises a contacting means on the human body.

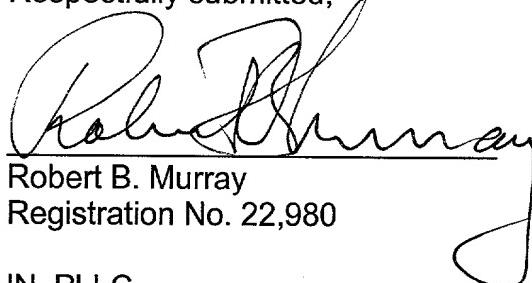
11. (Amended) The method set forth in claim 7, further comprising:  
generating electric pulses of low frequency band; and transmitting said generated pulse to human body in a aerobic exercise state.

13. (Amended) The method set forth in claim 9, wherein the predetermined heart rate reference is determined based upon an age and/or an maximum heart rate and/or an fatness ration of an user.

**REMARKS**

Claims 1-13 are pending in this application. By this Amendment, claims 3, 6, 11 and 13 are amended to correct the multiple dependency thereof and to place this application into better condition for examination. No new matter is added.

Respectfully submitted,



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**MARKE<sup>D</sup> UP CLAIMS**

**AMENDED CLAIMS**

[received by the International Bureau on 22 October 2001 (22.10.01);  
original claim 1-19 replaced by amended claims 1-13 (3 pages)]

1. An apparatus for removing body fat in a human body, comprising:
  - a heart rate detector of a human body;
  - 5 a comparator, electrically coupled to said detector, between the detected heart rate and a predetermined heart rate reference; and
  - an aerobic athletic equipment operatively controlled by a controller responsive to the output of the comparator.
- 10 2. An apparatus for removing body fat in a human body comprising:
  - a heart rate detector of a human body;
  - a comparator, electrically coupled to said detector, between the detected heart rate and a preset heart rate
  - 15 reference; and
  - an indicator, coupled to the comparator, that output a alarming signal responsive to the output of the comparator.
3. The apparatus set forth in [one of claims 1 and 2] further comprising:
  - 20 a pulse generator in low frequency band; and
  - a transmitter, coupled to said generator, output the pulse from said generator to human body in a aerobic exercise state.
4. The apparatus for removing body fat in a human body, 25 comprising:
  - a pulse generator in low frequency band;
  - a transmitter, coupled to said generator, output the pulse from said generator to human body in a aerobic exercise state.
- 30 5. The apparatus set forth in claim 4, wherein said generator changes the frequency band of the electric pulses

at intervals, or changes pulse interval intermittently.

6. The apparatus set forth in *one of claims 3 and 4* wherein said transmitter comprises a contacting means on the human body.

5       7. The apparatus set forth in claim 4, wherein said contacting means consists of a plurality of positive(+) and negative(-) pole pads, arranged such that dipole moment of pads should be alternated.

10      8. A method for removing body fat in a human body, comprising the steps of:

detecting a heart rate of a human body;

comparing said detected heart rate to a predetermined heart rate; and

15      controlling operation of an aerobic athletic equipment responsive to the output of the comparing.

9. The method set forth in claim 7, wherein controlling step controls the driving speed and/or the driving slope of said aerobic athletic equipment.

10. A method for removing body fat in a human body, comprising the steps of:

detecting a heart rate of a human body;

comparing said detected heart rate to a predetermined heart rate; and

25      indicating a alarming signal responsive to the output of the comparator.

11. The method set forth in *one of claims 7 to 9* further comprising:

generating electric pulses of low frequency band; and

30      transmitting said generated pulse to human body in a aerobic exercise state.

12. The method for removing body fat in a human body, comprising the steps of:

generating electric pulses of low frequency band; and

transmitting said generated pulse to human body in a aerobic exercise state.

claim 9

13. The method set forth in [one of claims 9 and 10] wherein the predetermined heart rate reference is determined based upon an age and/or an maximum heart rate and/or an fatness ratio of an user.